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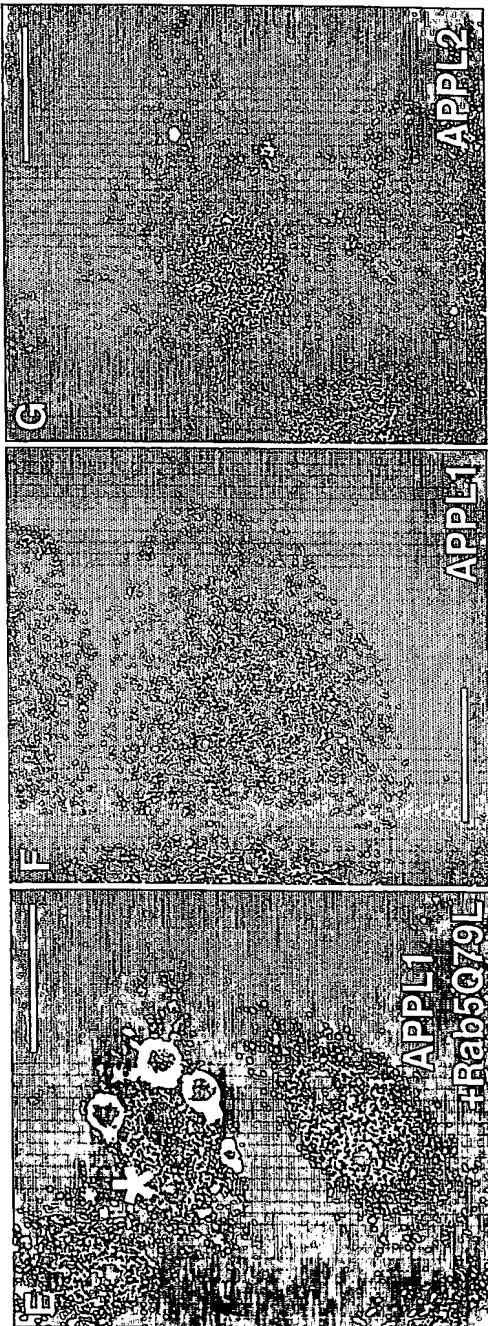
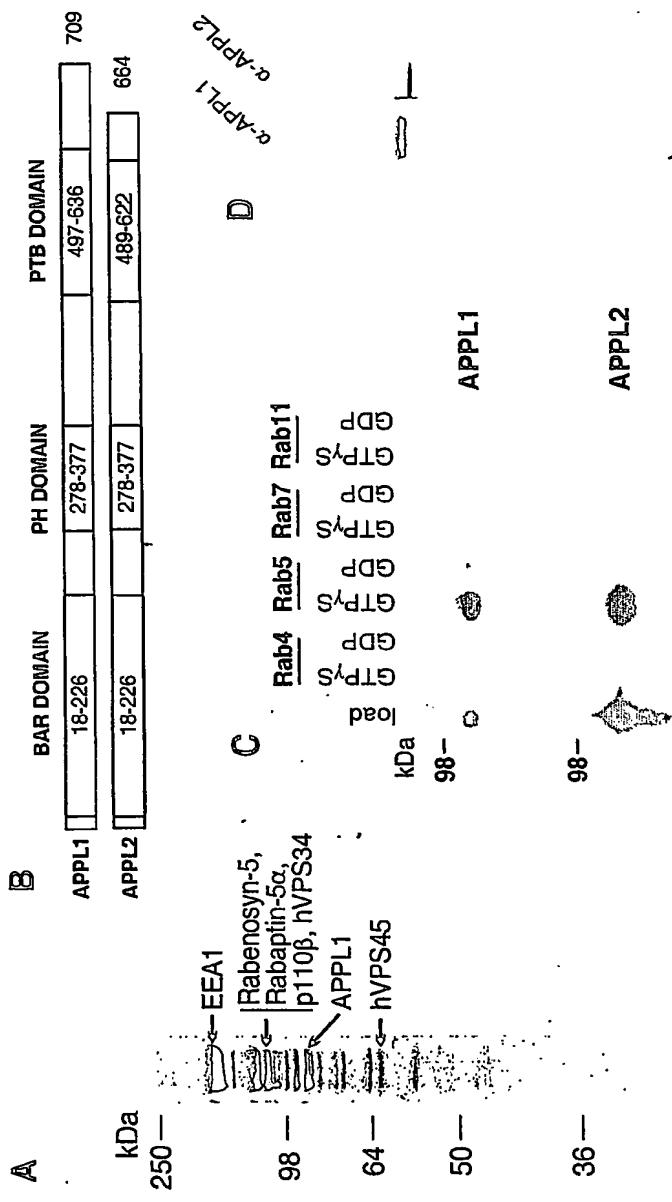


Fig. 2

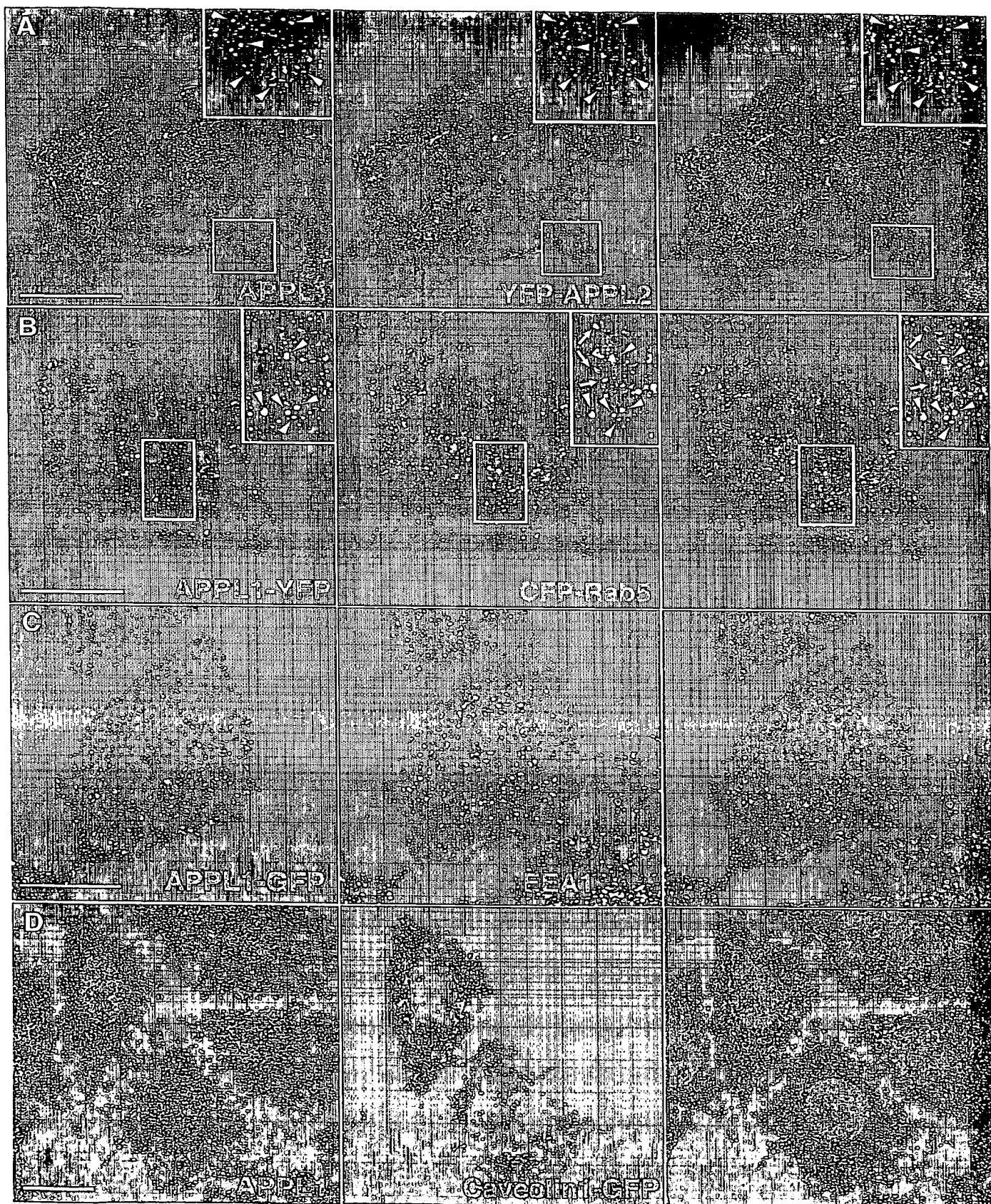


Fig. 3

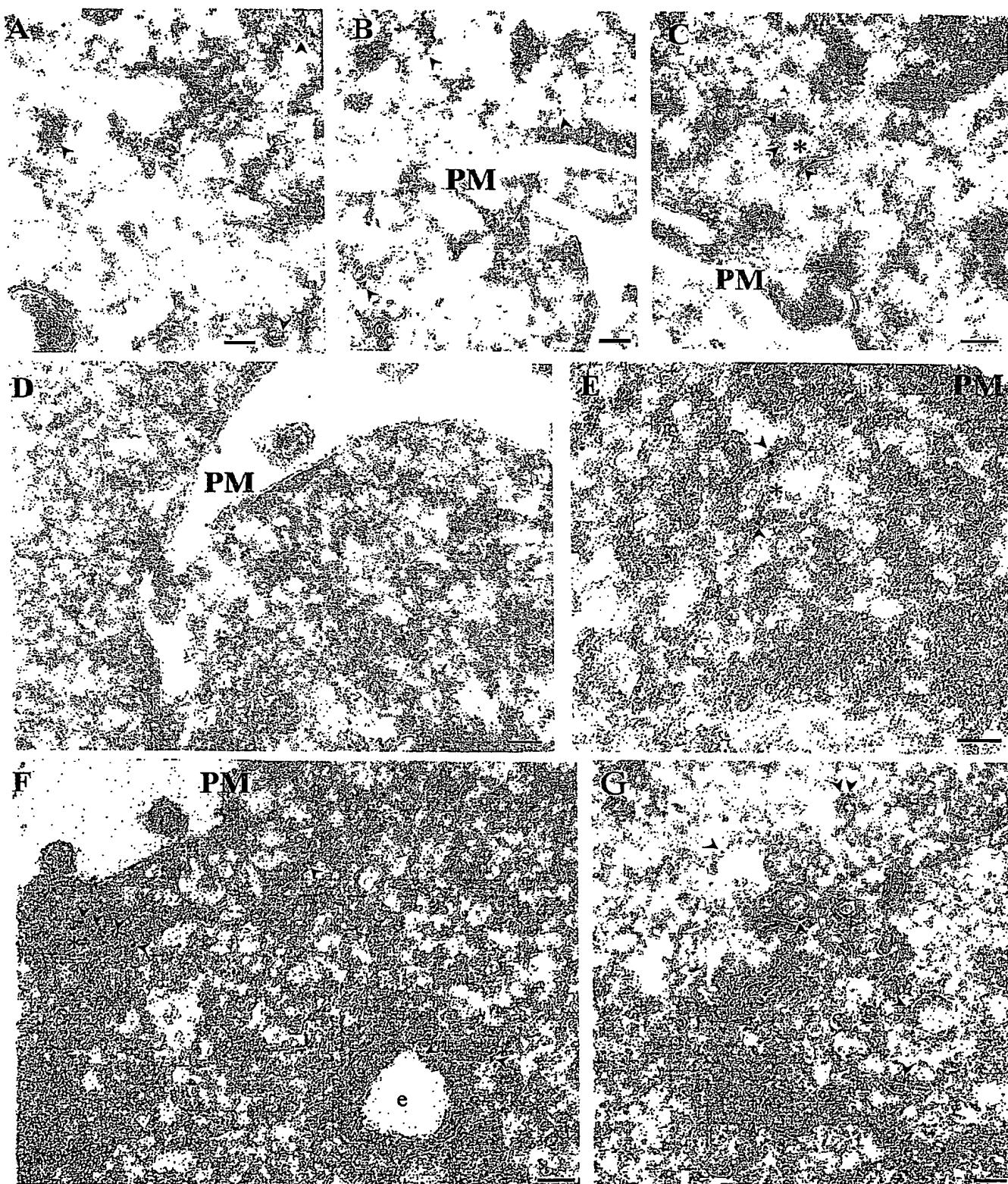


Fig. 4.



Fig. 5

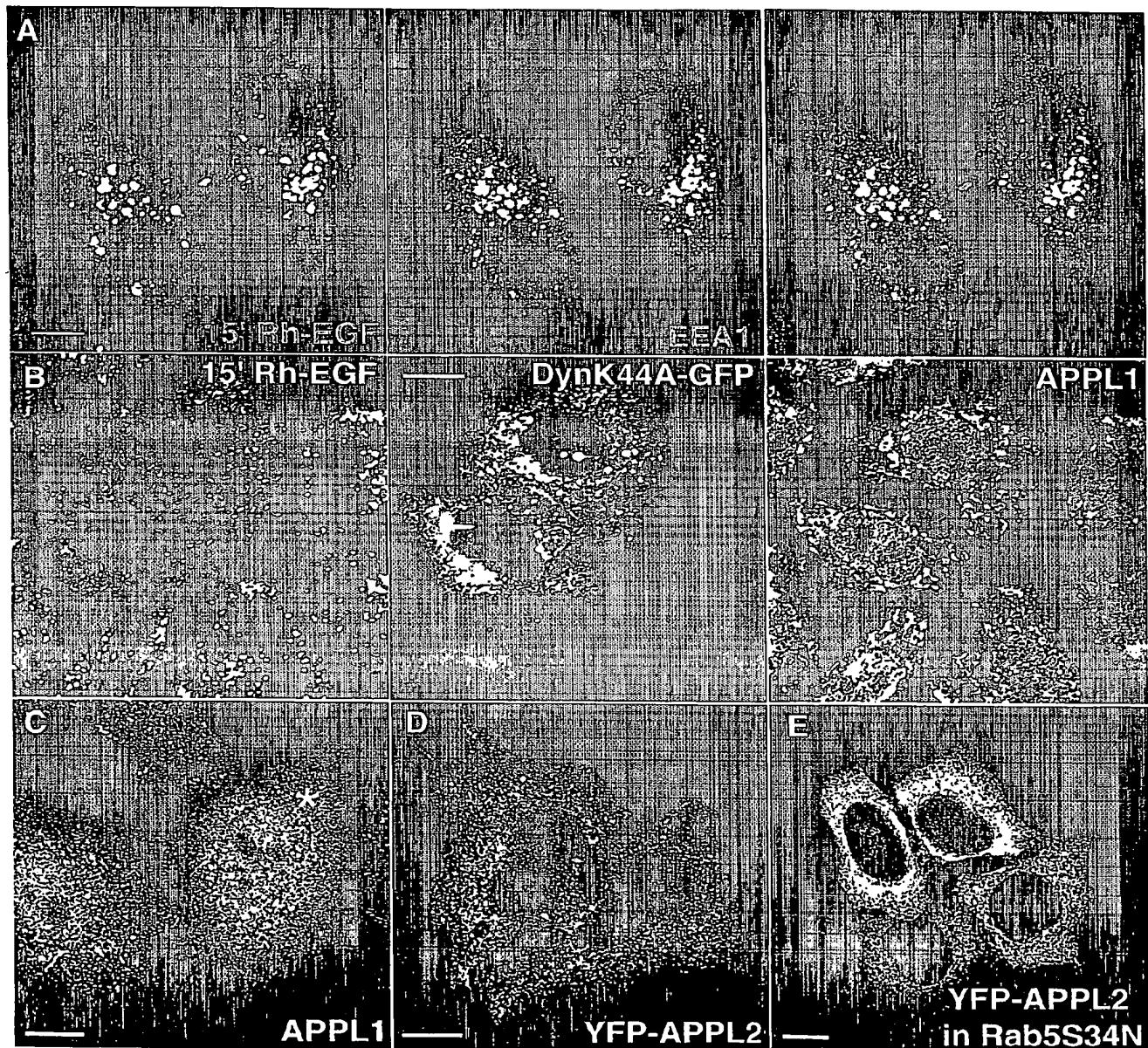


Fig. 6

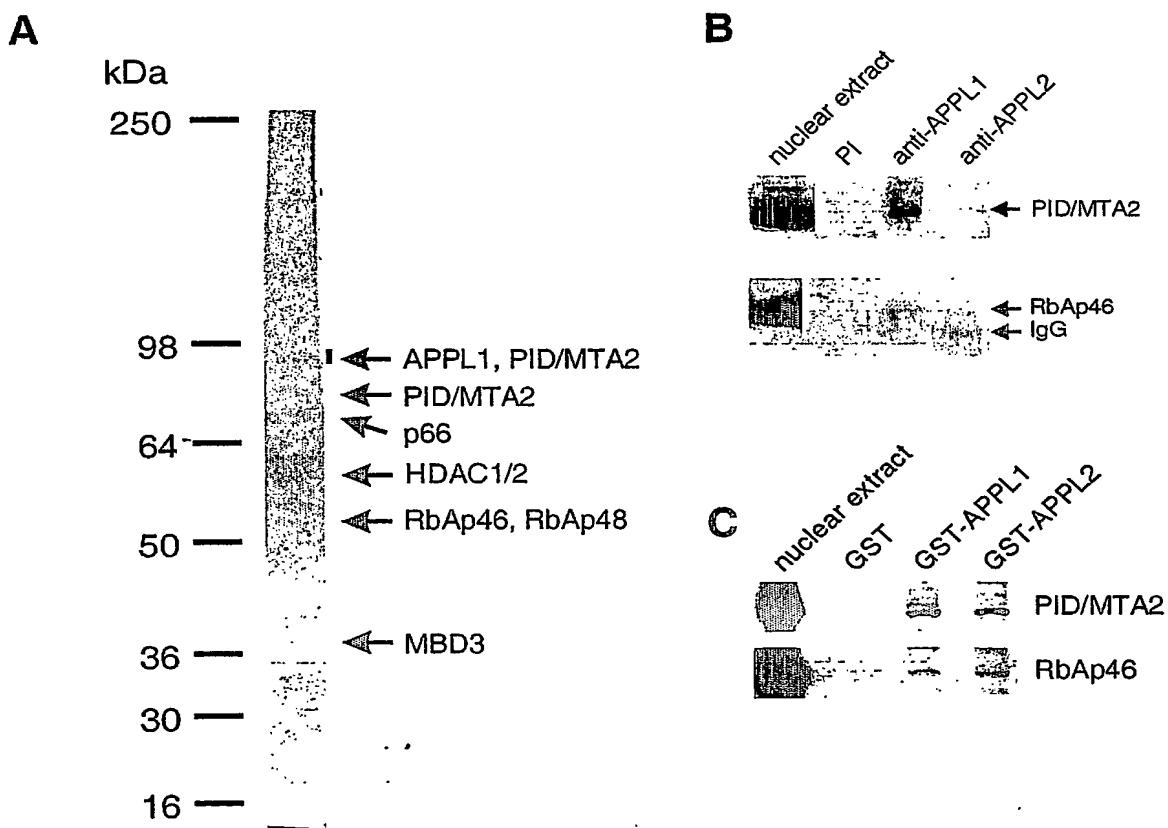
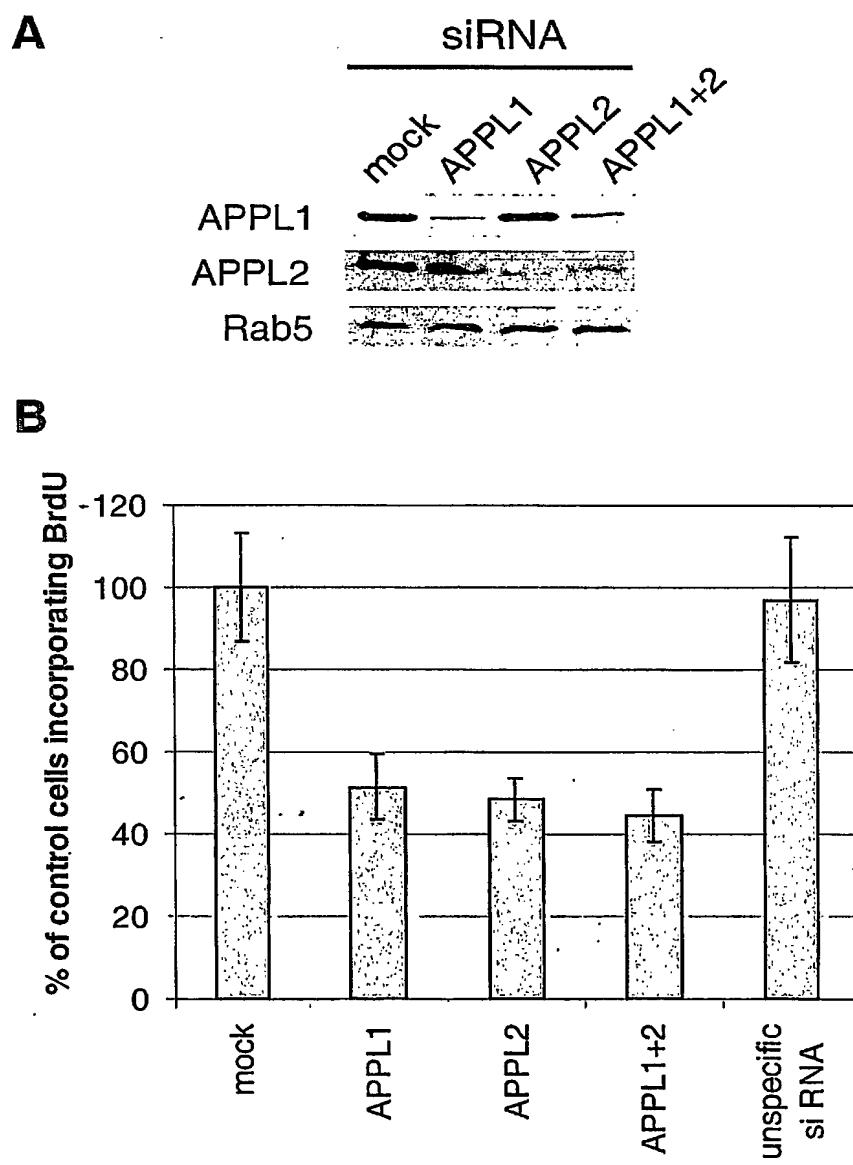


Fig. 7



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	BAR DOMAIN	PH DOMAIN	PTB DOMAIN	Rab5 binding	localization	% of BrdU incorporation
APP1	18-226	278-377	497-636	709	+	V 100
			Δ532-709		+	V 100
			Δ429-709		+	V, C 100
		Δ320-709		-	C, N	0 (cell death)
			Δ1-272	-	C	0
			Δ1-491	-	C, N	30-40
	273-384			-	C, N	20
		273-531		-	C, N	30-40

Fig. 8

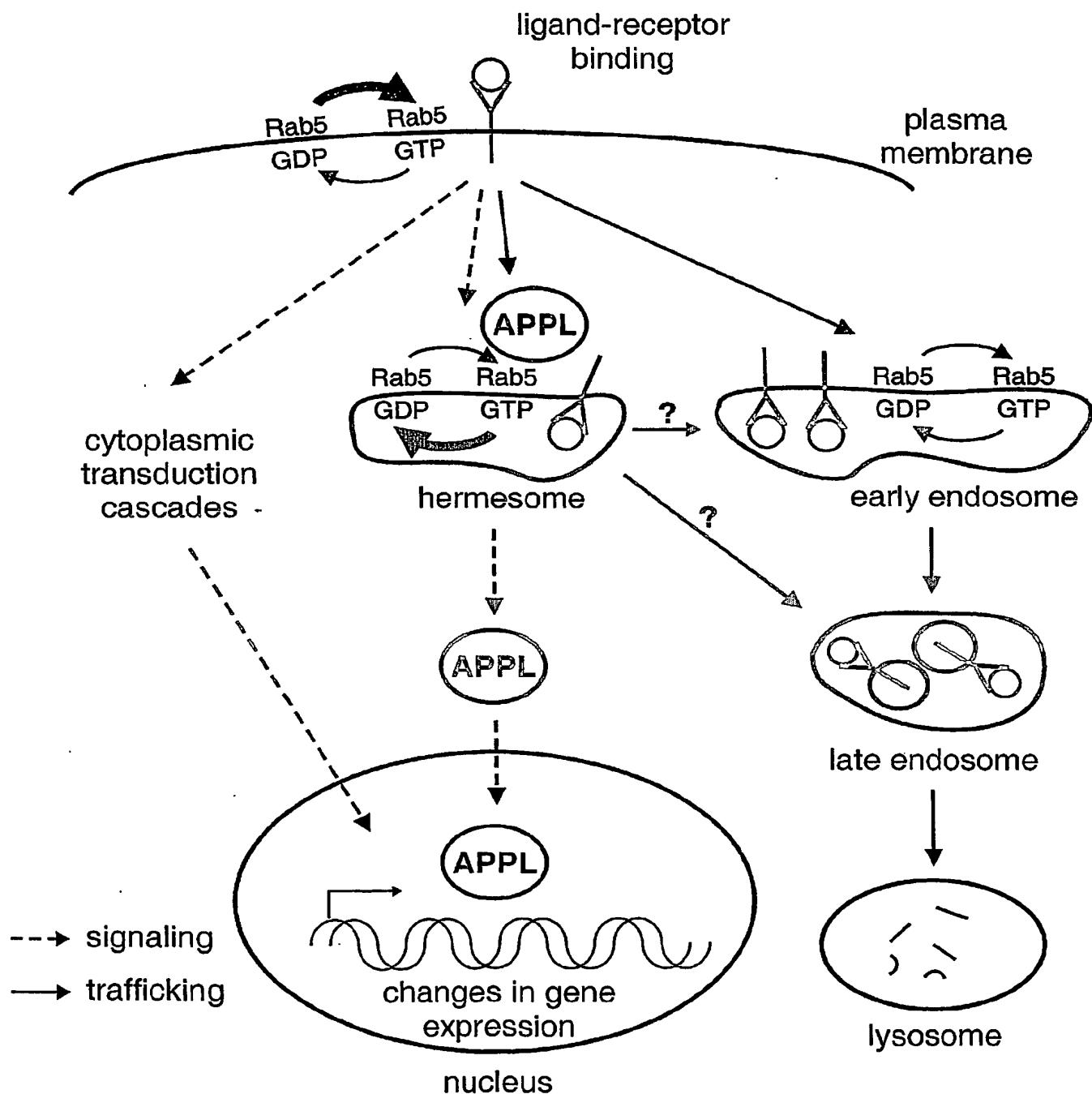


Fig. 9

Sequence Alignment of Arfaptin Proteins

The alignment shows the sequence of various Arfaptin proteins from different species. The sequences are color-coded by domain: N-terminal (blue), C-terminal (red), and middle domain (green). Conserved residues are highlighted in yellow.

Top Panel: HsArfaptin2, MnArfaptin2, HsArfaptin1A, XlArfaptin1, DmArfaptin, CeArfaptinA. Reference sequence: HsArfaptin2. Length: 185 amino acids.

Middle Panel: HsAPPL-bar, MnAPPL-bar, XlDip13A, HdDip13B, MdDip13B. Reference sequence: HsAPPL-bar. Length: 99 amino acids.

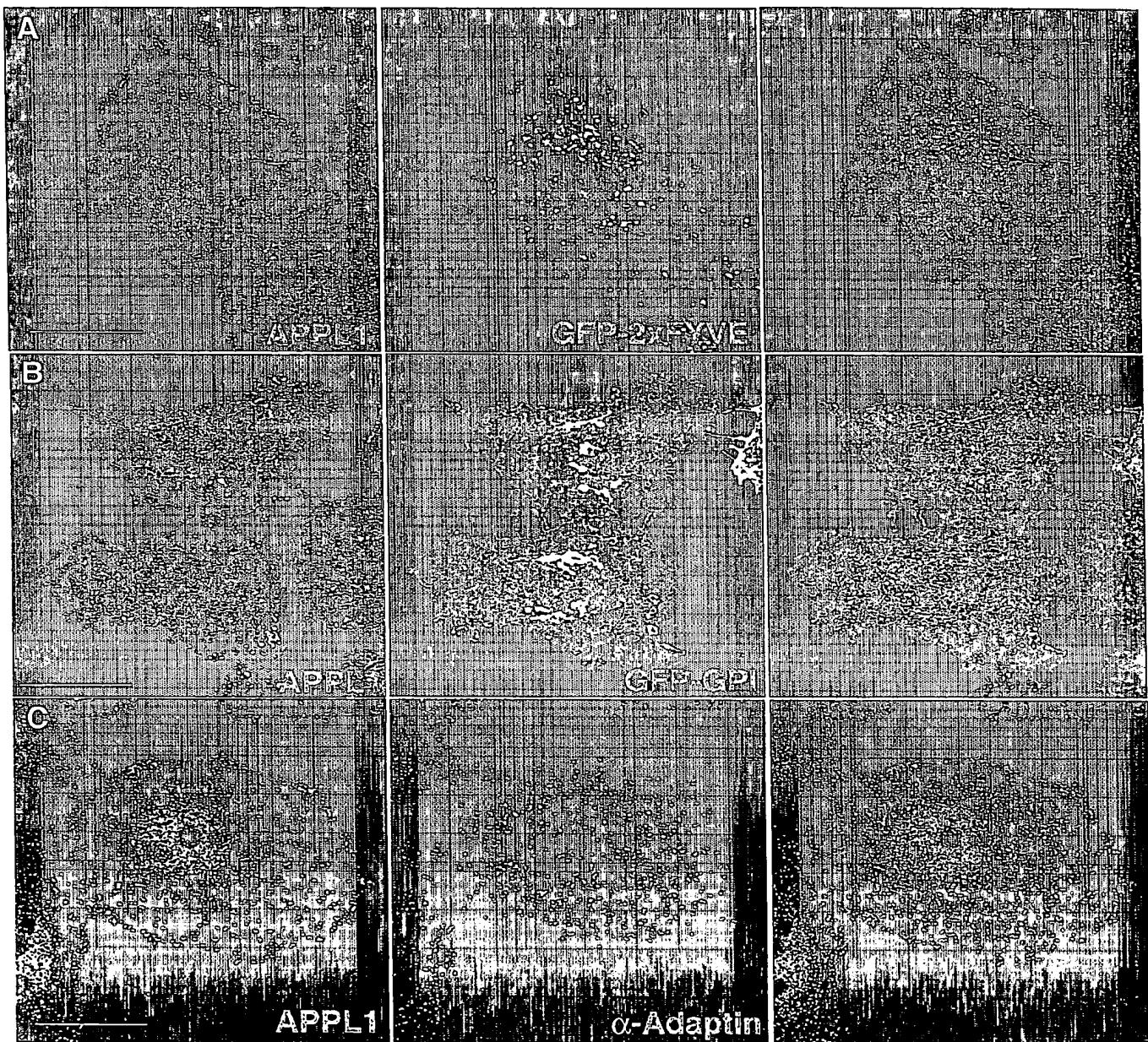
Bottom Panel: HsArfaptin2, MnArfaptin2, HsArfaptin1A, XlArfaptin1, DmArfaptin, CeArfaptinA. Reference sequence: HsArfaptin2. Length: 285 amino acids.

Bottom Bottom Panel: HsAPPL-bar, MnAPPL-bar, XlDip13A, HdDip13B, MdDip13B. Reference sequence: HsAPPL-bar. Length: 186 amino acids.

Bottom Bottom Bottom Panel: HsArfaptin2, MnArfaptin2, HsArfaptin1A, XlArfaptin1, DmArfaptin, CeArfaptinA. Reference sequence: HsArfaptin2. Length: 345 amino acids.

Bottom Bottom Bottom Bottom Panel: HsAPPL-bar, MnAPPL-bar, XlDip13A, HdDip13B, MdDip13B. Reference sequence: HsAPPL-bar. Length: 229 amino acids.

Fig. 10



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